

202

	Bits	Bytes	Format	
etwork_info_table_section(){				
table_ID	8	1	uimsbf value 0xC2	
zero	2	2	bslbf	
reserved	2	Ì	bslbf	
section_length	12	1	uimsbf	
zero	3	1	bslbf	
protocol_version	5	i	Sec. 4.4.1	
first_index	8	1	uimsbf range 1-255	
number_of_records	8	1	uimsbf	
transmission_medium	4	1	uimsbf	
table_subtype	4	1	uimsbf see Table 5.2	
for (i=0; i <number_of_records; i++)="" td="" {<=""><td>İ</td><td>į</td><td></td><td></td></number_of_records;>	İ	į		
if (table_subtype==CDS) {	l	1		
CDS_record()		((5))		
}				204
if (table_subtype==MMS) {	ļ	1		• • •
MMS_record()		((6))		208
}	ì			
descriptors_count	8	(1)	uimsbf range 0-255	
for (i=0; i <descriptors_count; i++)="" td="" {<=""><td>!</td><td></td><td>-</td><td></td></descriptors_count;>	!		-	
descriptor()	١٠	((*))	optional	
}	1			
}		ł		
for (i=0; i <n; i++)="" td="" {<=""><td></td><td>ŀ</td><td></td><td></td></n;>		ŀ		
descriptor()	١٠	(*)	optional	
}	1			
CRC_32	32	4	rpehof	

204

FIG. 2

	Bits	Bytes	Format
CDS_record(){			
number_of_carriers	8	1	uimsbf
spacing_unit	1	2	bslbf see Table 5.4
zero	1		bslbf
frequency_spacing	14		uimsbf range 1-16,383 units of 10 or 125kHz
frequency_unit	1	2	bslbf see Table 5.5
first_carrier_frequency	15		uimsbf range 0-32,767
}			units of 10 or 125kHz
		214	
		214	
2:	10		

FIG. 3

208

220

	Bits	Bytes	Format
MMS_record(){			
transmission_system	4	1	uimsbf see Table 5.7
inner_coding_mode	4		uimsbf see Table 5.8
split_bitstream_mode	1	1	bslbf {no, yes}
zero	2	1	bslbf
modulation_format	5		uimsbf see Table 5.9
zero	4	4	bslbf
symbol_rate	28		uimsbf units: symbols per sec.
13		l .	·

230

FIG. 4

	Bits	Bytes	Format
hortform_virtual_channel_table_section(){			
table_ID	8	1	uimsbf value 0xC4
zero	2	2	bslbf
reserved	2		bslbf
section_length	12		uimsbf
zero	3	1	bslbf
protocol_version	5		see Sec. 4.4.1
transmission_medium	4	1	uimsbf
table_subtype	4		uimsbf see Table 5.14
VCT_ID	16	2	uimsbf
if (table_subtype==DCM) {			
DCM_structure()	*	(*)	ļ
}			<u> </u>
if (table_subtype== VCM) {			234
VCM_structure() ———	 *	(*)	
}			238
if (table_subtype==ICM) {			256
ICM_structure()		(*)	
}			
for (i=0; i <n; i++)="" td="" {<=""><td></td><td></td><td></td></n;>			
descriptor()		(*)	optional
}			*
CRC_32	32	4	rpchof
		l	

FIG. 5

Bits	Bytes	Format
4	2	bslbf
12		uimsbf range 0-4095
1	1	bslbf
7		uimsbf range 1-127
i		3 * * * - *
1	(1)	bslbf {no, yes}
7	1	uimsbf range 1-127
		į
	4	4 2

FIG. 6

238	
230	

		Bits	Bytes	Format
	VCM_structure(){			
	zero	2	1	bslbf
	descriptors_included	1	ŀ	bslbf (no, yes)
	zero	5	ľ	bslbf
	splice	1	1	bslbf (no, yes)
	zero	7		bslbf
	activation_time	32	4	uimsbf
	number_of_VC_records	8	1	
	/for (i=0; i <number_of_vc_records; i++)="" td="" {<=""><td>1</td><td></td><td></td></number_of_vc_records;>	1		
	/ virtual_channel()	١٠	(*)	
	/ }	- 1	` `	
	/		L	
/				
/				
			DIO	7
			FIG.	/

CABLE TELEVISION RECEIVER
Attorney Docket No.: MATP-649US

1	_	Λ
L	J	u

		Bits	Bytes	Format
	virtual_channel(){			
	zero	4	2	bslbf
	virtual_channel_number	12		uimsbfrange 0-4095
	application_virtual_channel	1	1	bslbf (no, yes)
	zero	1		bslbf
	path_select	1		balbf see Table 5.18
	transport_type	1		bsibf see Table 5.19
	channel_type	4		uimsbf see Table 5.20
	if (application_virtual_channel) {			1
	application_ID	16	(2)	
64	} else {		_,	
	\ source_ID	16	(2)	
	λ		` '	
	if (transport_type==MPEG_2) {			
	CDS_reference	8	((1))	uimsbfrange 1-255
	program_number	16	((2))	
	filMS_reference	8	((1))	uimsbfrange 1-255
68	else { /* non-MPEG-2 */		****	
00	CDS_reference	8	((1))	uimsbfrange 0-255
	scrambled	1	((1))	bslbf (no, yes)
	zero	3	** /*	bslbf
	video_standard	4		uimsbf see Table 5.21
	zero	16	((2))	bslbf
	}		" "	
	if (descriptors_included) {			
	descriptors_count	8	(1)	uimsbf
	for (i=0; i <descriptors_count; i++)="" td="" {<=""><td></td><td></td><td></td></descriptors_count;>			
	descriptor()	•	((*))	'
	}			
	 			
	1)			

FIG. 8

CABLE TELEVISION RECEIVER Attorney Docket No.: MATP-649US 300 **Detect Tuning Module.** Begin acquiring Module Tuning Data. **Determine Module Quality Factor.** ND Wait for **Module Quality Factor** Predetermined > Predetermined Threshold? Time. YES Present User Selectable Option soliciting User Input to switch from Non-module Tuning Mode to Module Tuning Mode. 318 Wait for User Input Predetermined = Switch? Time. YES Switch from Non-module Tuning Mode 312 to Module Tuning Mode. FIG. 9

Inventor(s): Michael Kahn et al.

TITIE: METHODS AND APPARATUS FOR SWITCHING FROM A NON-MODULE TUNING MODE TO A MODULE TUNING MODE IN A

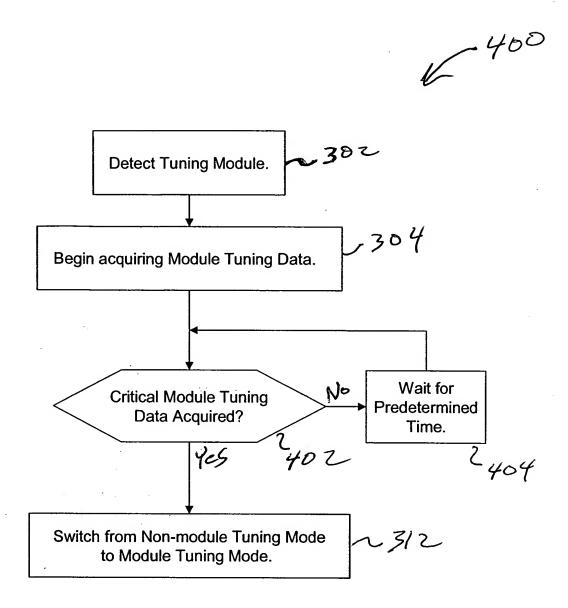


FIG. 10

Inventor(s): Michael Kahn et al. Title: METHODS AND APPARATUS FOR SWITCHING FROM A NON-MODULE TUNING MODE TO A MODULE TUNING MODE IN A

CABLE TELEVISION RECEIVER Attorney Docket No.: MATP-649US

